

27115  
S/165/E1/000/001/003/097  
A104/A127

3.9410

AUTHOR: Vydrin, A.F., (Deceased)

TITLE: Highly sensitive photoelectric magnetograph for magnetotelluric profiling

PERIODICAL: Akademiya nauk Turkmenской ССР, Izvestiya, Seriya fiziko-technicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1961, 39-44

TEXT: The author reviews investigations carried out in respect of design and performance of the photoelectric magnetograph with negative feed back of the magnetic field designed by S.P. Bakalinskii, R.E. Bryunelli and N.F. Krotovich [Ref. 1; Registratsiya geomagnitnykh pul'satziy vysokochustvitel'nym magnitografom (Recording of Geomagnetic Pulses by Highly Sensitive Magnetograph). MGQ, Informatsionnyy byulleten', no. 7, 1959] and the photoelectric push-pull magnetograph MАФ (MDF) designed by the Otdel razvedochnoy geofiziki i seismologii Akademii nauk Turkmenской SSR (Department of Exploratory Geophysics and Seismology of the Academy of Sciences of Turkmenskaya SSR). The magnetic system of the portable, magnetic variation installation ANII [Abstracter's note: ANII not defined], serves as pickup on the magnetograph described in Ref. 1. The

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Highly sensitive photoelectric magnetograph ...

sensitivity of the slightly modified system is approximately  $3 \mu\text{A}/\text{mm}$ . The receiver consists of a  $\text{CuB}-3$  (STA-V-3) vacuum photocell with a sensitivity of  $80 - 85 \mu\text{A}$  per lumen. The illuminating installation comprises a collimator equipped with a cylindric lens and tubes. Additional amplification of signals is carried out by a direct current  $6\text{Zh}4$  ( $6\text{Zh}4$ ) amplifier of tube. The magnetograph is fed by a standard automobile battery (12 v) and a separate plate battery (200 v). An RC outlet permits the visual control of the magnetic field during the "period of anticipation", without special adjustments. Various aspects of amplitude and phase frequency characteristics with RC-outlet are determined by C and R rates according to formulae cited by V.G. Dubrovskiy [Ref. 2: Metod bystrokhodnoy registratsii zemnykh tokov s primeneniem yemkostnoy svyazi elektrodoj i gal'vanometra (Method of High-Speed Recording of Telluric Currents by Use of the Capacity Coupling of Electrodes and Galvanometer). Izvestiya AN TSSR, no. 1, 1958]. The expressions quoted below are justified if the natural period of the magnetic system of the magnetograph is considerably lower than the period of recorded variations. The amplitude frequency characteristic  $\Theta$  and the displacement dependence of phase  $\phi$  on the frequency of forced oscillation is:

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$$\theta = \frac{u}{\sqrt{[(1-u^2) - 2Dn\tau(1 + \frac{r_{sh}}{(m+1)R})]^2 + [(1-u^2)\frac{n\tau}{u} - 2Du]^2}}$$

$$\operatorname{tg}\alpha = \frac{(1-u^2) + 2Dn\tau \left(1 + \frac{r_{sh}}{(m+1)R}\right)}{\frac{n\tau}{u}(1-u^2) - 2Du}$$

$n = \frac{u}{\omega} = \frac{T\omega}{T_0}$ ; n - natural frequency of the galvanometer;  $\omega$  - frequency of forced oscillations;  $\tau$  - time constant; D - attenuation of the galvanometer;

$m = \frac{r_g}{r_{sh}}$ ; R - total capacity resistance to circuit. The use of RC outlets on

devices recording the magnetic field and telluric currents, facilitates field research carried out by telluric current and magnetotelluric profiling (MTP) methods, providing that a satisfactory identification of the device frequency characteristics is ensured. Tests of the MTP field performance of this magnetograph were carried out in March and April 1960 in the Zakhmet-Derveze-Kem area in the southeast of Kara-Kum. The magnetograph was connected to the electric

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geophysical exploration station 3ΠЛ-57 (EPL-57) by a recording oscillograph 3Π0-6 (EPO-6). Tests proved its ability to record brief, low-value variations of the magnetic field (0.2 - 0.5 γ) in the sandy regions of Kara-Kum. The level of interferences (wind, seismic, etc.) did not exceed 5-8% of recorded variation values. The RC-outlet permitted the effective control of the magnetic field during "anticipation" over a prolonged period. Following defects were noted; sensitivity to feeding voltage; passing of the component constant of anode current through the feedback winding of the Helmholtz ring, disturbed equilibrium of the magnetic system caused by accidental or deliberate turning-off of the feed-supply; sensitivity to dampness and excessive input resistance of the direct current amplifier; shifting of the operation point of tube performance. In view of the above, it was considered expedient to construct the MAφ(MDP) photoelectric magnetograph with a push-pull self-balancing circuit on photoamplifiers, with correction of zero-recording by artificial magnetic field. Consequently, optical and electrical parts were altered accordingly. A more powerful tube (6v) intensified the luminous flux and a special prism was placed in the path of the luminous ray reflected by the magnetic system mirror. As it reaches the facet of the prism, the ray divides into two parts and reflects on symmetrically placed φ 3Y-2 (FEU-2) multipliers, tube forming two arms of bridge circuits,

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Highly sensitive photoclectric magnetograph ...

L<sub>2</sub>, L<sub>3</sub>, R<sub>1</sub> and R<sub>2</sub>. The circuit diagram of the magnetograph pickup is explained. The signal is taken from the bridge oriented diagonally to the input of the direct current push-pull amplifier of tube L<sub>1</sub> [6H15M] (6N15P), whose anode circuits form bridge (R<sub>3</sub>, R<sub>4</sub>  $\frac{1}{2}$  L<sub>1</sub>  $\frac{1}{2}$  L<sub>1</sub>). The outlet signal is taken from the anodes of tube L<sub>1</sub> and reaches the control panel through a connection cable. Two pairs of Helmholtz rings are connected to the outlet of the amplifier and create negative feedback (II) and electric damping of the magnetic system (III). The resistance connected to the cathode circuit creates additional negative feedback of anode current and stabilizes the performance of tubes. A third pair of rings (I) is attached to the variometer for the purpose of graduation and correction of recorded zero. The control panel serves for the calibration of the magnetograph, adjustment of sensitivity and correction of zero, as well as for the visual control of the magnetic field by indicator. Graduating current from E<sub>1</sub> passes through the polarity switch P<sub>3</sub>, rheostat R, graduating rings (4 and 6 block contacts) and is controlled by indicating instruments via operation switch P<sub>2</sub> in third position. Button switch K<sub>1</sub> produces magnetic field pushes. The sensitivity of the magnetograph can be adjusted within 0.01 - 0.1 gamma/mm with the help of additional resistance instruments R<sub>2</sub> - R<sub>5</sub> and the sensitivity switch P<sub>1</sub>. The correction of zero by an artificial magnetic field is performed

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Highly sensitive photoelectric magnetograph ...

by current passing through the winding of graduating Helmholtz rings and regulated by potentiometers  $R_6$  (roughly) and  $R_8$  (precisely). The power source is a stabilized plate voltage of 200 v. Visual control of oscillograph recordings is achieved by turning a switch into the second position. Resistances  $R_{10}$ - $R_{14}$  were selected so as to ensure the full scale deviation of indicator coinciding with the analogous deviation of the recording light spot of the oscillograph. The amplifier is balanced by the  $R_{15}$  potentiometer. At fourth and fifth positions of switch the supply voltage of the magnetograph is controlled by indicators. The incandescent tubes of the circuit are fed directly from a 12 v automobile accumulator battery, which also feeds anode circuits with the help of the converter on semiconductor triodes П-4Б (P4B). The plate voltage (200 v) is stabilized by two СГ-3С (SG-3S) gas stabilizers. The converter and stabilizers are built into the control panel. Tests carried out in June, July and August 1960 confirmed the reliability and hardiness of the described magnetograph. In consequence of the positive properties of the described, modified magnetograph, the latter was included into the equipment of station СГ-59 (STT-59) used for electric geophysical exploration by magnetotelluric profiling carried out by the Department of exploratory geophysics and seismology of AS Turkmenkaya SSR. Conclusions: Respective results of field tests carried out on Bryunelli and МАФ

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(MDF) magnetographs confirmed clearly the advantages of the latter. The sensitivity varies from 0.01-0.1  $\gamma/\text{mm}$ ; the period of recorded fluctuations of micro-variations of the magnetic field was 6 sec and above. The introduction of battery feeding permitted the elimination of bulky feeding sources. There are 3 figures and 5 Soviet-bloc references.

ASSOCIATION: Otdel razvedochnoy geofiziki i seismologii AN Turkmeneskoy SSR  
(Department of Exploratory Geophysics and Seismology AS Turkmenes-  
kaya SSR)

SUBMITTED: December 23, 1960

Card 7/7

GAMUS, Moisey Zalmanovich; VYDRIN, Andrey Ivanovich; SEMENENKO, P.A.,  
inzh., red.; SHILLING, V.A., red. izd-va; GVIKTS, V.L., tekhn.  
red.

[Workshop rationalization and comprehensive plans] TSekhovaia  
ratsionalizatsiia i kompleksnye plany. Leningrad, 1962. 24 p.  
(Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen me-  
tallov, no.14) (MIRA 15:8)  
(Leningrad--Machine tools)

VYDRIN, A. I.; GAMUS, M.Z.; PAKHOMOV, A.Ye.; BOLOTIN, V.D., inzh.,  
fctbenzent

[Mechanization of labor-consuming operations in the  
manufacture of steam turbines] Mekhanizatsiya trudo-  
emkikh rabot v paroturbostroenii. Moscow, Mashino-  
stroenie, 1964. 231 p. (MIRA 17:9)

VOLOSATOV, V.A.; VIDRIN, A.I.; GAMUS, M.Z.; BORSHCHEVSKAYA, S.I., red.;  
SHERMUSHENKO, T.A., tekhn.red.

[Complex plan for every worker] Kompleksnyi plan - na kashdoe  
rabochee mestlo. Leningrad, Lenizdat, 1959. 161 p. (MIRA 13:5)  
(Machine-shop practice--Technological innovations)

VYDRIN, A.I., inzh.; GAMUS, M.Z., inzh.

Attaching plates to cooler tubes by means of a pulling process.  
Energomashinostroenie 4 no.5:26-27 My '58. (MIRA 11:9)  
(Refrigeration and refrigerating machinery)

VYDRIN, Andrey Ivanovich; GAMUS, Moisey Zulmanovich; BOLOTIN, V.D., inzh.,  
retsenzent; REZNITSKIY, L.M., kavk. tekhn. nauk, red.; BORODULINA,  
I.A., red. issd-va; BARDINA, A.A., tekhn. red.

[Partial mechanization and automation in assembly shops] Malaia  
mekhanizatsiya i avtomatizatsiya v sborochnom tsekhe. Moskva,  
Gos. nauchno-tekhn. issd-vo mashinostroit. lit-ry, 1961. 164 p.  
(MIRA 14:8)

(Machine-shop practice) (Automation)

VIDRIN, Andrey Ivanovich; GAMUS, Moisey Zalmanovich; MASLOV, I.A., inzh.,  
ratsenzent; REZNITSKIY, L.M., kand.tekhn.nauk, red.; CHFAS,  
M.A., red.izd-vo; SPERANSKAYA, O.V., tekhn.red.

[Technological improvements according to an over-all plan]  
Tekhnicheskie usovremenivaniia po kompleksnym planam.  
Moskva, Gos.sauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.  
(MIRA 13:2)  
82 p.  
(Technological innovations) (Efficiency, Industrial)

S/114/60/000/012/007/009  
E194/E484

AUTHORS: Vydrin, A.I. and Gamus, M.Z., Engineers

TITLE: Universal Indicating Instruments

PERIODICAL: Energomashinostroyeniye, 1960, No.12, pp.46-47

TEXT: This is a catalogue style description of six instruments based on indicator micrometers developed by the Leningrad Kirov Works. The first is a slide gauge, illustrated diagrammatically, with an accuracy of 0.01 mm which is convenient for external measurements and for checking the distance between slots where other types of micrometric instruments cannot be used. The second instrument is intended to check displacement of internal end faces of holes. The third instrument is intended to check variations in the position of grooves. The fourth has a modernized indicator head for checking beaded edges on discs. The fifth is intended for checking the radial positions of blades in assembling turbine discs. The sixth is intended for measuring the displacements at the bottom of deep holes. All the devices consist essentially of fittings to a common integrating micrometer with scale divisions of 0.01 mm; sketches of the various fittings are given. There are 6 figures.

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VYDRIN, D.I.

SOV/2302

## PAGE I BOOK EXPLORATION

Academya nauk Ukrainskoy SSR. Institut geologit polenyut iskopayey-

with

Problema migrazii nafti i formirovaniya neftyanyn. I. Goryachyj skop-

plimy; materialy Lvovskoy diskusii o nafti i gasakh v problemakh:

of Oil Migration and the Formation of Oil and Gas Accumulations;

Materials of the Discussion Held in Lvov, May 8-12, 1957) Moscow,

Gosgeoneftgizdat, 1959. 422 p., 1,100 copies printed.

Eds.: V. B. Portir'ev, Academician of the Ukrainian SSR Academy of Sciences, and I. O. Brod. Professor I. S. Terzhev, Professor, Tech. Ed., A.S. Polonina; Editorial Board: I.O. Brod, Professor, N.R. Ladzhanyuk, and V.B. Porfir'ev, Academician of the Ukrainian Academy of Sciences.

PREFACE: This collection of articles is intended for a wide range of geologists and research workers interested in oil problems.

Coverage: Articles contained in this book deal with the problems of migration and accumulation of oil and gas. These problems were discussed in May 1957 at Lvov State University. I. I. Franko at a meeting organized jointly by the Institute of Geology and Mineral Resources, Academy of Sciences of the USSR, the Department of Geology and Oil Exploration of the Lvov Polytechnic Institute, and the Lvov Geological Society. Theories on the origin of petroleum deposits, and the conditions surrounding their occurrence, are treated. There are 327 references: 232 Soviet, 86 English, 5 French, and 4 German.

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Introduction 3  
Opening Address by the President of the Organization Committee 5  
of the Conference V. B. Portir'ev

## REPORTS

Aref'yev, V.Ya. [VNIIGRI] Basic Regularities in the Formation of Oil Deposits in the Prikarpatskaya Salt Dome Region 111  
Lisitskii, V.P. [Izdat. AN UkrSSR] Anomalous Formation Pressure 121  
Kudryavtsev, N.I. [VNIIGRI, Leningrad] Mechanics of the Formation of Oil and Gas Deposits 136  
Eropekin, P.M. and K.A. Shaburovova [Geologicheskiy Institut] Solid Bitumen, Oil, and Hot Gases in Ultrabasic Intrusions, 151  
Traps and Volcanic Neck 151  
Portir'ev, V.B. [Institut geologit polenyut iskopayeych N. M. Ulyanov] The Time Problem in the Formation of Oil Deposits 165

## DISCUSSIONS

Nekhtiyev, Sh.P. [Institut geologit is. I.M. Gubkins, Azerbaijan] The Source Bed Characteristics of the Lower Part Deposits in the Productive Series (Middle Pliocene) of Azerbaijan 199  
Bontchenko, S.P. and K. A. Mashkovich, [VNIIGRI Branch, Saratov] The Age of Oil and Gas Traps as a Criterion for Forecasting Their Oil-Bearing Capacity 202  
Elinson, M.M. [MGI, Moscow] Distribution of Heavy Hydrocarbons Under Various Geological Conditions 208  
Zyalov, O.A. On the Question of Oil in the Antarctic Region 210  
Tepet, V.V. [VNIIGRI, Moscow] Formation of Oil Deposits and Facies of Sedimentation 211  
Vysotskii, D.I. [Kremlodarnomerterrasped] New Data on the Geology of the Oil-Producing-bearing Possibilities in the Western Caucasus and Predkavkaz'ye 217

Card 5/10

VYDRIN, K.S., inzh.

Work of the designing organizations of the tractor and  
agricultural machine manufacture. Trakt. i sel'khozmash.  
(MIRA 16:11)  
33 no.3:1-2 Mr '63.

1. Zamestitel' nachal'nika upravleniya Gosudarstvennogo  
komiteta po avtomatizatsii i mashinostroyeniyu pri Gosplane  
SSSR.

RYZHAKOV, Vasiliy Nikolayevich; NARSKIY, Sergey Aleksandrovich;  
VYERIN, Lev Borisovich; NAZAROV, M.I., red.

[Using gases as acetylene substitutes in welding] Prime-  
nenie gazov-zamenitelei atsatsilena v svarochnom proizvod-  
stve. Leningrad, 1963. 21 p. (Leningradskii dom na-  
uchno-tekhn. propagandy. Obmen peredovym opytom. Seria:  
Svarka, rezka i paika metallov, no.4) (MIRA 18:3)

NARSKIY, S.A., inzh.; VYDRIN, L.B., inzh.

Welding carbon steel using a propane-butane mixture. Svar. proizv.  
(MIRA 16:10)  
no.9:34-35 S '63.

1. Nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya  
Leningradskogo soveta narodnogo khozyaystva.

VYDRIN, N.V., inzh.; PASHIN, Yu.F., inzh.; SERGEYEV, V.D., inzh.

Standardized railway cranes. Stroi. i dor. mash. 7 no.9:1-4 S '62.  
(MIRA 15:10)

(Cranes, derricks, etc.)

VyDRIN, N.V.

25(1)

PHASE I BOOK EXPLOITATION SOV/2305

Chelyabinsk. Politekhnicheskiy institut

Voprosy teorii i praktiki obrabotki metallov davleniyem (Problems in the Theory and Practice of Metal Forming) Moscow, Mashgiz, 1959.  
103 p. (Series: Its: [Sbornik] vyp. 14) Errata slip inserted. 5,000 copies printed.

Reviewers: V.B. Skornyakov, Candidate of Technical Sciences, V.G. Belakin, Engineer, N.A. Bedin, V.A. Korshunov, I. I. Kozhinskiy, L.A. Kritsshteyn, B. N. Malyarovskiy, M.A. Shubik, and D. I. Fishman; Ed.: V.N. Vydrina, Candidate of Technical Sciences; Exec. Ed. (Ural-Siberian Division, Mashgiz): A.V. Kaletina, Engineer; Tech. Ed.: N.A. Dugina.

PURPOSE: The collection of articles is intended for engineers, technicians, and scientific workers in metal forming.

COVERAGE: This collection of articles, written by staff members of the Chelyabinsk politekhnicheskiy institut (Chelyabinsk Polytechnical Institute), deals with problems on the theory, processes, and equipment of metal forming.

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## Problems in the Theory and Practice of Metal Forming SOV/2305

Problems in change of shape and state of stress of parallelepipeds and cylindrical bodies subjected to flattening in plane parallel forging heads are discussed. The essentials of the theory of the interaction between strip and roll, and the question of slip along contact surfaces during rolling are explained. An analytic method for the kinematic design of steam-distribution mechanisms for steam hammers is presented. Precision stamping of thin-walled parts of intricate shape is described. An investigation of the function of repeaters in in-tandem rolling mills is discussed. An article on the testing of electric heating furnaces is also included. No personalities are mentioned. References follow several of the articles.

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Preface	3
Skonechnyy, A.I. [Candidate of Technical Sciences]. State of Stress in Metal and Analysis of Change in Shape of Prismatic Specimens Subjected to Flattening in Plane Forging Heads	5
The author presents formulas for the calculation of lateral spread, elongation, and the external friction coefficient of prismatic specimens subjected to flattening in plane forging heads. Consideration is given to the effect of stress distribution.	

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Problems in the Theory and Practice of Metal Forming SOV/2305

Boguslavskiy, G.V. [Engineer]. Deformation of Round Bodies During Radial Reduction Between Flat Plates

35

The article deals with an experimental investigation of the above phenomenon. The author presents mathematical data and the conclusions reached concerning the nonuniformity and distribution of deformations in radial and longitudinal directions. The project was supervised by Professor V.V. Sheveykin, Doctor of Technical Sciences.

Boguslavskiy, G.V. Internal Forces Active During Plastic Deformation Experiments in press forming carried out in 1956 on 315 specimens are described. Internal forces were measured by a special dynamometer and a press. Simultaneous measurements of total pressure, radial forces, and reduction were recorded. Diagrams showing the relationship between these factors are shown for different specimen shapes and conclusions are presented. This project was also supervised by V.V. Shveykin.

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Problems in the Theory and Practice of Metal Forming SOV/2305

Vydrin, V.N. [Candidate of Technical Sciences]. On the Physical Nature  
of Forward Slip 63

The author briefly describes the theory of the interaction between  
strip and rolls during rolling. The theory, claimed to be new,  
is based on the application of the law of the conservation of energy  
to the rolling process. The formulas derived agree with those of  
other theories and are confirmed by experimental data.

Vydrin, V.N. Effect of the Spread on Slip During Rolling 70

The article discusses slip at any point along the arc of  
contact of a strip and its relation to spread. The effect of  
spread on forward slip and on the coefficient of external  
friction is also discussed.

Shishkov, B.I. [Engineer]. Precision Stamping of Thin-walled Parts of  
Intricate Shape 76

Types of dies and the technique for stamping very thin  
(0.2 to 0.02mm) parts for instruments are described, and suggestions  
for efficient operation are presented.

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Problems in the Theory and Practice of Metal Forming SOV/2305

Katkov, N.P. [Engineer]. On the Problem of Kinematics in Steam Distribution  
Mechanisms of Steam Hammers

83

Formulas for kinematic dependencies derived in this investigation  
permit the design of steam distribution mechanisms based on ram  
dimensions and ram travel.

Vydrin, V.N., P.N. Amosov [Engineer], and O.I. Tishchenko [Engineer]. In-  
vestigation of the Function of Repeaters on a Light Merchant Mill

91

The author makes an analogy between the motion of a bar in a  
repeater and belt drive. He uses Euler's formula for belting to  
derive the formula for the motion of a bar in a repeater. He uses  
this formula as a criterion for analyzing the function of a repeater.  
Experimental investigation involved and equipment used are described,  
and data are presented.

Raytses, V.B. [Candidate of Technical Sciences] and A.P. Shitov [Engineer].  
Production Testing of Electric Heating Furnaces

101

In this article diagrams are presented showing temperature changes  
and power consumption of starting and during operation, losses during  
idling, and the productivity of electric heating furnaces.

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GO/fal

Card 5/5

9-21-59

VYDRIN, P. G.

Testing experimental specimens of machine tools. Stan. i  
instr. 33 no. 10:12-17 0 '62. (MIRA 15:10)

(Machine tools—Testing)

VYDRIN, P. G.

"Effects of Decisions of the 18th Congress VKP(b) on the Next Objectives of Technologists and Machine Tool Builders, Stanki i Instrument, 10, No. 4, 1939, Engineer.

Report U-1505, 4 Oct 1951.

PUSHKAREV, Yakov Nikolayevich; MOZOZOV, N.D.; VYDRIN, P.O., redaktor;  
ZUDAKIN, I.M., tekhnicheskiy redaktor

[High-speed cutting of trapezoidal threads in high-strength alloy  
steels] Skorostnoe narezanie trapetsoidal'nykh rez'b na legirovani-  
ykh vysokoprachnykh staliakh. Moskva, Gos.izd-vo oboronnoi promysh.  
1951. 47 p.  
(Screw cutting)

GJUKHOV, N.M.; DARTAU, A.N.; VYDRIN, P.G., redaktor; ZUDAKIN, I.M.,  
tekhnicheskiy redaktor.

[Operation of a jig-boring machine] Rabota na koordinatno- rastochnykh  
stankakh. Moskva, Gos.izd-vo oboronnoi promyshlennosti, 1953. 195 p.  
[Microfilm] (MIRA 8:5)  
(Drilling and boring machinery)

VYDRIN, P. G.

CHECHEVITSKIY, V.Ye.; VOLOSHIN, A.M.; VYDRIN, P.G., inzhener, retsenzent;  
DUNAYEV, P.F., inzhener, redakter.

[Work on coordinated boring machines] Rabota na koordinatno-rastoch-  
nykh stankakh. Moskva, Gos. nauchno-tehn. izd-vo mashinostroit. 1  
sudostroit. lit-ry, 1954. 142p.  
(Drilling and boring machinery) (MIRA 7:7)

BRYUKHANOV, A.N.; LAKHTIN, Yu.M.; MALYSHEV, A.I.; NIKOLAYEV, G.N.; SHU-  
VALOV, Yu.A.; SHISHKOV, P.P., kandidat tekhnicheskikh nauk; dotsent,  
retsenzent; ARSHINOV, V.A., kandidat tekhnicheskikh nauk, retsenzent;  
LOSEV, I.S., inzhener, retsenzent; YEGOROV, A.E., professor, redaktor;  
VYDRIN, P.G., inzhener, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor.

[The technology of metals] Tekhnologija metallov. Moskva, Gos. nauchno-  
tekhn. izd-vo mashinostroit. lit-ry, 1954. 624 p. (MLRA 7:11)  
(Metals)

VYDRIN, P. G.

MERPERT, M.P. laureat Stalinskoy premii, kandidat tekhnicheskikh nauk;  
VYDRIN, P.G., inzhener, redaktor; BITIYEV, I.V., inzhener, retsensent;  
MATVEREVA, Ye.H., tekhnicheskiy redaktor.

[Thread-grinding machines] Rez'boshlifoval'nye stanki. Moskva,  
Gos.nauchno-tekhnik.izd-vo mashinostroitel'noy lit-ry, 1955. 153 p.  
(Grinding and polishing) (Screw cutting machines) (MLRA 9:1)

VYDRIN, P.G.

121-4-32/32

AUTHOR: Vydrin, P.G.

TITLE: A Conference of Workers in Machine Tool Laboratories  
(Soveshchaniye rabotnikov stanochnykh laboratori)

PERIODICAL: Stanki i Instrument, 1958, no.4, p. 44 (USSR).

ABSTRACT: A conference held in February, 1958 at the ENIMS Institute is briefly reviewed. The machine tool laboratory of the Kolomna Heavy Machine Tool Plant (Kolomenskiy zavod tyazhelogo stankostroyeniya) has carried out, in conjunction with the ENIMS Institute, an extensive experimental investigation to study the operation of the circular slideways in heavy vertical turning machines, which led to profound design changes. The machine tool laboratory of the imeni Sverdlov Plant is working systematically on the improvement in the design of the frames of horizontal boring mills, which has led to the development of stiffer frames. The same laboratory also works on the development of electric drives with a wide range of speed control and on the theory and practical verification of engineering methods of prediction of the smoothness of slow motions in machine tools. The design of a new type of plain bearing for boring mills is being developed. The work leading to the standardisation of the stiffness of lathes, milling

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A Conference of Workers in Machine Tool Laboratories

machines, vertical turning machines and slotting machines, carried out by the ENIMS Institute in co-operation with other works' laboratories has yielded important practical results. The Conference indicated several desired trends for the work of machine tool laboratories.

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1. Machine tools laboratory-Workers conference

USCOMM-DC-54723

BRYUKHANOV, A.N.; LAKHTIN, Yu.M.; MALYSHEV, A.I.; NIKOLAEV, G.N.; SHUVALOV,  
Yu.A.; SHISHKOV, P.P., dotsent, kand.tekhn.nauk; retsenzent; ARSHINOV,  
V.A., kand.tekhn.nauk, retsenzent; LOZOVY, I.S., inzh., retsenzent;  
YEGOROV, A.N., prof., red.; VYDRIN, P.G., inzh., red.; SOKOLOVA,  
T.F., tekhn.red.

[Technology of metals] Tekhnologija metallov. Moskva, Gos.suchno-  
tekhn.izd-vo mashinostroit.lit-ry, 1954. 624 p.

(MIRA 13:12)

(Metals)

(Metalwork)

MERPERT, Moisey Petrovich, kand. tekhn. nauk.; VYDRIN, P.G., inzh.,  
retsentsent; KUNIN, P.A., inzh., red.; EL'KIND, V.D., tekhn.  
red.

[Precision thread-grinding machines; design, manufacture, opera-  
tion] Precizionnye rez'boshlifoval'nye stanki; konstruktsiia,  
izgotovlenie, ekspluatatsiia. Izd.2., perer. i dop. Moskva,  
Mashgiz, 1962. 302 p. (MIRA 15:9)  
(Grinding machines)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961330002-6

VYDRIN, P.G.

Quality and reliability of machine tools. Item. 4, instr. 36 no. 5  
2-3 My '65. (MIRA 18:5)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961330002-6"

YDRIN, V.A. (Leningrad)

Use of ACTH and glycocorticoids in epidemic hepatitis (botkin's disease). Klin.med. no.3:59-66 '62. (MIRA 15:3)

1. Iz kafedry infektsionnykh bolezney (nach. - prof. P.A. Alisov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(HEPATITIS, INFECTIOUS) (ACTH)  
(ADRENOCORTICAL HORMONES)

POPOV, S. Ye., kand. med. nauk; VYDRIN, V. A. (Leningrad)

Pathogenesis of a perforating ulcer of the duodenum during therapy with prednisolone. Klin. med. 40 no. 7:114-116 J1 '62.  
(MIRA 15:7)

1. Iz kafedry fakul'tetskoy khirurgii imeni S. P. Fedorova (nachal'nik - prof. V. M. Sitenko) i kafedry infektsionnykh bolezney (nachal'nik - prof. P. A. Alisov) Voyenno-medicinskoy ordona Lenina akademii imeni S. M. Kirova.

(DUODENUM--ULCERS) (PREGNADIENEDIONE)

M

Country : USSR  
Category : CULTIVATED PLANTS. COMMERCIAL. Oleiferous. Sugar-  
bearing.  
Abs. Jour. : REF ZHUK-BIOL., 21, 1958, NO. 96061

Author : Vydrin, V.I.  
Institut. : ~~???~~  
Title : The Breeding and Seed Raising of Sunflowers.

Orig. Pub. : V sb.: Maslichn. kultury v vost. r-nakh SSSR,  
Krasnodar. "Sov. Kuban'", 1956, 49-60

Abstract : Barnaul'skiy 2151 improved sunflower variety is  
deserving of distribution in Altayskiy Kray.  
Barnaul'skiy 3055, VNIIMK 8883, Saratovskiy 1  
Renniy and Saratovskiy Skorospislyy are very  
interesting. In competitive tests run by the  
Altay Scientific Research Institute of Agriculture  
and Animal Husbandry a number of new varieties  
bred by the institute were distinguished and in  
preliminary variety trial, in control and selec-  
tion nurseries, a number of early maturing and

Card: 1/2

Country :  
Category : CULTIVATED PLANTS.COMMERCIAL  
Acq. Jour. : REF ZHUR-BIOL.,21,1968,NO-96061  
Author :  
Institut. :  
Title :  
Orig. Pub. :  
  
Abstract : medium ripening kinds were proven. Seeds produc-  
ing shorter vegetation were gotten from the VFLIMK  
8883 and 8932 varieties. Increased productivity in  
the sunflowers may be derived by cross pollination  
between plants of a single variety, sown from  
seeds of different harvest years and from various  
places of origin, and well as by directed inter-  
varietal cross-pollination.--O.P. Plyusnina

Card: 2/2

108

Country	: USSR	M
Category	: CULTIVATED PLANTS, COMMERCIAL. Oleiferous. Sugar-Bearing.	
Abs. Jour.	: REF ZHUR-BIOL., 21, 1952, NO. 96068	
Author	: Vydrin, V.I.	
Institut.	:	
Title	: Selection and Seed Raising of Linseed Flax, Poppies and Falseflax.	
Orig. Pub.	: V sb.: Maslichn. kul'tury v vlast. r-nakh SSSR, Krasnodar, "Sov. Kuban", 1956, 71-76	
Abstract	: At Barnaul' Selection Station valuable linseed flax varieties have been developed: Sibiryak, Barnaul'skiy 18 and others. The results of variety trials in 1944-1955 have demonstrated the high productivity of the Barnaul'skiy 4874, Barnaul'skiy 7026, Barnaul'skiy 6676 and the Barnaul'skiy 6407 varieties. The Altayets variety poppy developed by the station has been districted in Kuybyshevskaya Oblast', while the Barnaul'skiy 490 variety - is districted in the krays and oblasts of Siberia,	
Card:	1/2	

113

Country :	M
Category :	CULTIVATED PLANTS, COMMERCIAL
Abs. Jour. :	REF ZHUR-BIOL., 21, 1958, NO. 96068
Author :	
Institut. :	
Title :	
Orig. Pub. :	
Abstract :	Balašovskaya and Tatarovskaya Oblast' and the Mordovian SSR. In competitive falseflax variety trials (1951-1955) the most productive was the Barnaul'skiy 4 variety falseflax. The best characteristics were found in the drought resistant Donskoy 32-K variety. Elite seeds of the Sibiryak variety flax, Voronezhskiy 349 falseflax, Barnaul'skiy 490 poppy and Altayetsa poppy were raised at the Altay Scientific Research Institute of Agriculture and Animal Husbandry.--O.P. Plyusnine
Card:	2/2

Country	: USSR	M.
Category	: CULTIVATED PLANTS. COMMERCIAL. Oiliferous. Sugar-Bearing.	
Abs. Jour.	: REF ZHUR-BIOL., 21, 1958, NO-36056	
Author	: Vydrin, V.I.	
Institut.	: -	
Title	: A Study of Some Problems in the Agrotechny of Oil-Bearing Crops	
Orig. Pub.	: V sb. Maslichn. kul'tury v vost. r-nakh SSSR, Krasnodar., "Soy. Kuban'", 1956, 90-101	
Abstract	: It has been determined by the Altay Institute of Agriculture and Animal Husbandry that the fall planting of sunflowers should be introduced in Siberia through organized measures, despite the fact that the yield from this method does not exceed spring sowing. In square-pocket plantings sunflowers, depending on the variety, can be left at 2 each hill or alternately 2-3 plants per hill. Linseed oil flax in damp years increase their output when higher seeding rates are used (60-90 kg/ha)	
Card:	1/2	

103

	M	
Country :		
Category :	CULTIVATED PLANTS. COMMERCIAL	
Abs. Jour. :	REF ZHUR-BIOL., 21.1968.ND-96056	
Author :		
Institut. :		
Title :		
Orig. Pub. :		
Abstract :	When growing falseflax on weeded ground one should sow only after having destroyed the weeds with a preliminary cultivation, although not later than 15-20 May. On clean ground it is possible to have an unthinned poppy crop with close drill planting and a sowing rate reduced to 1 kg/ha. The plots after sunflowers should be used under grain, groat and forage crops with preliminary diskng and working the plots with herbicide for weed control. --O.P. Flyusina	
Card:	2/2	

VYDRIN, V.I., kandidat sel'skokhozyaystvennykh nauk.

Sunflower as the predecessor to grain crops. Zemledelie 4 no.8:119-  
121 Ag '56. (MIRA 10:1)

1. Altayskiy zonal'nyy nauchno-issledovatel'skiy institut sel'skogo  
khozyaystva.  
(Altai Territory—Sunflowers)